to indicate the roadway except the tops of fences on either depth of from one to twenty-three inches. side.

Chattanooga, Tenn.: rain began 2.37 a. m. and ended 9.35 less than seven hours. The sewers were inadequate to carry wharves were submerged by water during the day.

ture islands, wagon roads were under water, with nothing off the water, and the city was flooded in various places to a

Baltimore, Md.: considerable damage resulted from the a. m., 30th, falling at times very heavily; 2.55 inches fell in high tide along the water front on the 31st. Many of the

ATMOSPHERIC ELECTRICITY.

AURORAS.

On the Atlantic coast auroras were reported as far south as West of the Atlantic coast auroras Egg Harbor City, N. J. were not reported south of the fortieth parallel. The most notable displays occurred on the 21st, when they were observed in New Hampshire, Iowa, and Minnesota.

The following reports have been made of the more import-

ant displays noted:

Duluth, Minn.: an aurora was observed from 10.35 p.m. 21st to 1.20 a. m. 22d. It extended from about 160° to 200° azimuth, and to about 25° altitude. The display was very The display was very faint and consisted simply of a pale whitish light.

Saint Vincent, Minn.: an aurora consisting of a confused mass of light, which rose to altitude 12°, and extended from azimuth 145° to 220°, was observed from 11 p. m. 21st to

12.20 a. m. 22d.

Eastport, Me.: a faint auroral arch which rose to altitude 17° and covered 90° of the horizon, from within a few degrees of east-northeast to northwest, was observed from 8.45 to 10.30

Auroras were observed during the month as follows: 3d, Peking, Ill.; Cresco, Iowa. 5th, West Milan, N. H. 10th, Royalston, Mass. 13th, Grantsburgh, Wis. 18th, South Can-Minn.; Nashua, N. H. 23d, South Canisteo, N. Y. 25th, New Jersey, Oregon, Washington, West Virginia, and Ver-Tatoosh Island, Wash. 26th, Eastport and Mayfield, Me.; mont. There were no states or territories in which thunder-Royalston, Mass. 27th, South Canisteo, N. Y. 28th, Bev-storms were not reported for one or more dates.

erly, N. J. 30th, Egg Harbor City, N. J.; South Canisteo, N. Y. 31st, Dysart, Iowa.

THUNDER-STORMS.

The more severe thunder-storms are described under "Local storms." Thunder-storms were reported in the greatest number of states and territories, twenty-seven, on the 13th; in twenty-six on the 10th and 29th; in twenty-four on the 14th, 20th, and 27th; in twenty-two on the 21st, 25th, and 30th; in twenty-one on the 26th; in from fifteen to twenty, inclusive, on the 11th, 12th, 17th to 20th, 22d to 24th, and 28th; in from ten to fourteen, inclusive, on the 1st, 7th, 9th, 15th, 16th, and 31st; in from five to nine, inclusive, on the 2d to 6th, and 8th. There were no dates for which thunder-storms were not reported in one or more states or territories.

Thunder-storms were reported on the greatest number of dates, twenty-nine, in Kansas; on twenty-one in Illinois; on twenty in Iowa and Michigan; on from fifteen to nineteen, inclusive, in Minnesota, Missouri, North Carolina, Ohio, Pennsylvania, and Texas; on from ten to fourteen, inclusive, in Alabama, California, Dakota, District of Columbia, Indiana, Indian Ter., Louisiana, Maryland, Massachusetts, Nebraska, New York, South Carolina, Tennessee, Virginia, and Wisconsin; on from five to nine, inclusive, in Arkansas, Colorado, isteo, N. Y. 21st, Dysart, Iowa; Duluth and Saint Vincent, Florida, Georgia, Kentucky, Mississippi, Montana, Nevada,

MISCELLANEOUS PHENOMENA.

PRAIRIE FIRES.

Prairie fires were reported during the month as follows: New England City, Dak., and Saint Vincent, Minn., 3d; Saint Cloud, Minn., 7th; Fort Sill, Ind. T., 11th.

FOREST FIRES.

Duluth, Minn., 7th: destructive forest fires are still raging in all directions, but in many localities they have burned themselves out. They have attacked the heavy pine woods in many places, and the loss of timber will be very large. Several hundred thousand ties, and thousands of cords of wood have been burned. Numerous buildings, hay, meadows, crops, and bridges have been burned in the western part of the Farmers and mill men in the country are fighting the county. Farmers and mill men in the country are ngnting the fires. The air in the city is filled with smoke.—Chicago, Ill., Tribune, May 7.

La Crosse, Wis.: extensive forest fires prevailed in the northern part of the state on the 4th, 5th, and 6th, and owing to the dry weather the fires burned fiercely. Railroad men arriving over the Omaha road on the 4th report that the forest from Ashland to Clear Lake, one hundred and fifty miles, is ablaze. Many thousands of ties have been destroyed and On the Fond du Lac Indian resersome towns endangered. vation \$50,000 worth of logs and skids were burned. The heavy rain which fell on the 7th in the northern section of the state, partially extinguished the fires.

have been burning in the woods between Plymouth and Rock place, all day. The tract is one of the most valuable oil prop-

farmers have been able to save their homes.—Union and Advertiser, Rochester, N. Y., May 8.

Newburgh, Orange Co., N. Y., 8th: forest fires are burning in the Shallangunk Mountains and in the Catskills; also in the highlands below this city, and on the Fishkill Mountains. Passengers on the New York and New England road state that the fires are burning on the mountains in that vicinity and on the state line. A large amount of wood land has been seriously damaged. The fires are reported to be on the increase in all directions.—Democrat and Chronicle, Rochester, N. Y., May 9.

Michigan: reports from various points in the upper peninsula show that severe forest fires have been in progress in that section since about the 5th; fences, cord wood, shingles, posts, and standing timber have been consumed. It is estimated that half a million feet of logs have been burned, the crops ruined in many localities, and a large number of buildings destroyed. Reports also show that destructive fires were general at about the same time in the northern portion of the state, and in Ottawa, Muskegon, Midland, Clare, Gladwin, and Osceola counties, in the middle portion; in Lenawee county, in the southeastern, and Allegan county in the southwestern portion of the state. The light rain in the upper peninsula on the 8th, and in the southern half of the state on the 10th, and the general rain throughout the state from the 15th to the 22d extinguished the fires.

Custer City, McKean Co., Pa., 8th: a fierce forest fire has Mason City, Cerro Gordo Co., Iowa, 8th: destructive fires been raging about the Moody tract, five miles south of this Falls, this county, since the evening of the 4th. So far the erties in this county, and a large number of rigs and small